

Notes of the COCCON/ EM27/SUN telephone conference at 22nd of July 2021

Here are some notes of the discussions and ideas of the telecon.

Please note that these minutes are not a record of every statement given in the telecon. Rather it tries to sum up the most important points of the discussion. However, if you think an important point is missing please email to benedikt.herkommer@kit.edu.

List of participants:

Gregory Osterman (JPL), Mattaeus Kiel (JPL), Caroline Bes (CNES Toulouse), Tomi Karpinnen (FMI), Timothy Miller (University of Oklahoma), Mahesh Kumar Sha (BIRA), Neil Humpage (University of Leicester), Katharina Heimerl (Vrije University Amsterdam), Andre Butz (IUP Heidelberg), Nasrin Pak (University of Toronto), Dave Pollard (NIWA), Jia Chen (TUM), Isis Frausto Vicencio (University of California), Bianca Baier (NOAA), Aaron Meyer(LANL), Elisabeth Spicer, Diogo Medeiros , Thomas Blumenstock (KIT), Lena Feld (KIT), Frank Hase (KIT), Benedikt Herkommer (KIT)

Notes:

- Welcome of all participants. Recap of Idea of telecon: news exchange (campaigns, instrument operation, data analysis), a platform for discussions and questions and initiation of collaborations, ...
- Presentation of Caroline Bes on MAGIC Campaign. Presentation has been uploaded here as well. Thanks again to Caroline for providing the talk and releasing the slides!
- Discussions based on Presentation:
 - Reason for drifts of EM27 on side by side measurements: There were several ideas for reasons:
 - Regular ILS measurements should be performed (used together with time series of XAIR for detecting instrumental drifts).
 - Pressure recording used for evaluation should be the same for all instruments.
 - Possible systematic bias in ILS might cause a variability in the results in dependence of the angle of the sun. → Check data for same airmass range.
 - For a more accurate diagnosis it might be useful to record data which includes a wide range of airmasses (and morning and evening observations) → Investigate airmass dependency, recognize time offsets.
 - FMI has one EM27/SUN which may can be used for MAGIC Campaign.
- Idea: It could be interesting to place a EM27/SUN in Pallas, since there is a ICOS station as well, which could serve as a reference.
- Next telecon: 9th of September 2021, 18:00 UTC. You will be informed via Email.